

SW6 HDMI and SW8 HDMI • Setup Guide

IMPORTANT:
Refer to www.extron.com for the complete user manual and installation instructions before connecting the product to the power source.

The Extron SW6 and SW8 HDMI are six and eight input, one output, High-definition Multimedia Interface (HDMI) switchers. They allow multiple HDMI signals, including digital video, 3D signals, and embedded multi-channel digital audio, to be switched to one compatible display. These switchers support all standard single link HDMI (up to 2.25 Gbps) and DVI 1.0 signal formats and are compatible at 60 Hz with all PC resolutions up to 2048 x 1080 and HDTV resolutions up to 1080p with 12-bit color. They are fully HDCP compliant.

This guide provides instructions for an installer to set up and operate these switchers. For full installation, configuration, and operation details, see the *SW HDMI Series User Guide*, available at www.extron.com.

Rear Panel Features and Connections

NOTE: Figure 1 shows an SW8 HDMI, which has eight input connectors. The rear panel of the SW6 HDMI is identical except for the number of input connectors (six).

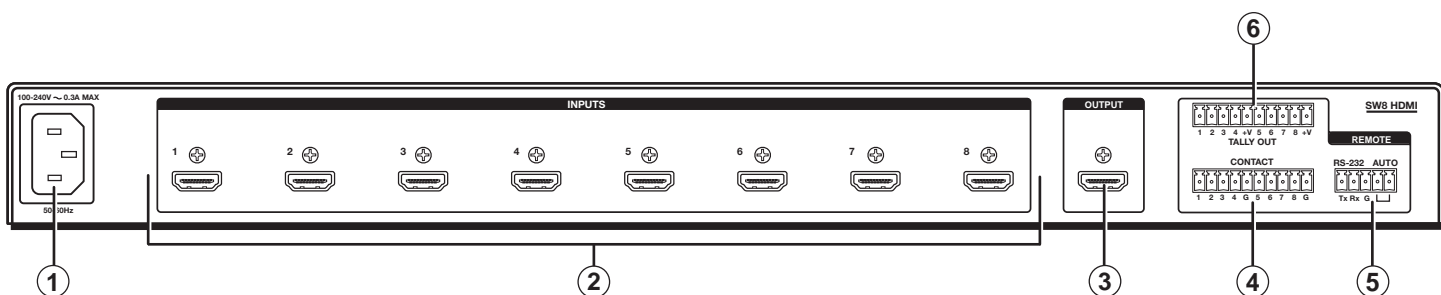


Figure 1. SW8 HDMI Rear Panel

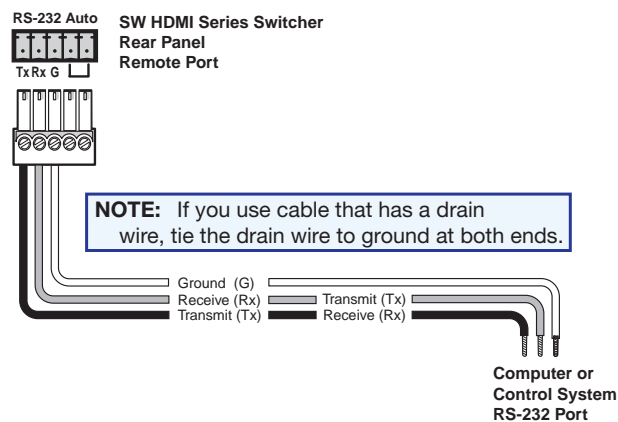
- ① Female IEC power connector
- ② HDMI input connectors
- ③ HDMI output connector
- ④ Contact closure port
- ⑤ RS-232 and auto-input switching connector
- ⑥ Tally Out port

Installation Steps

1. **Turn off all of the equipment** and disconnect it from the power source.
2. **Mount the switcher** on a rack shelf or furniture (optional. See the *SW HDMI Series User Guide* for the procedure).
3. **Connect HDMI input sources** to one or more of the SW HDMI input connectors (② on the rear panel diagram in figure 1).

NOTE: LockIt® cable lacing brackets, one for each HDMI input and output connector, are provided with the SW HDMI. These brackets can be used to secure the HDMI cables to the rear panel connectors to reduce stress on the HDMI connectors and prevent signal loss due to loose cable connections. For information on attaching the LockIt brackets, see the *SW HDMI Series User Guide*, available at www.extron.com.

4. **Connect an HDMI output device** to the output connector (③). By default, the EDID of this device is stored at the HDMI inputs.
5. **Connect control devices:** Connect your computer to one of the following SW HDMI communication ports to configure and control the switcher via SIS commands:
 - **RS-232 port** — Connect the unterminated transmit, receive, and ground wires of the RS-232 cable to the first three pins on the provided 5-pole captive screw plug, as shown in the illustration at right. Connect the plug to the rear panel Remote shared connector (⑤ in figure 1), and the other end of the cable to your computer serial port. Protocol for the RS-232 port is 9600 baud, 8 data bits, 1 stop bit, no parity.
 - **Config port** — USB mini-B connector (⑥ on the [front panel diagram](#) on page 3) for USB control.



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6. **Enable auto-input switching** (optional). Use a jumper wire to connect pins 4 and 5 of the shared 5-pole captive screw plug. Attach the plug to the remote connector (⑤ on the **rear panel diagram** on the previous page) if this was not done in step 5 for the RS-232 connection (see figure 2).

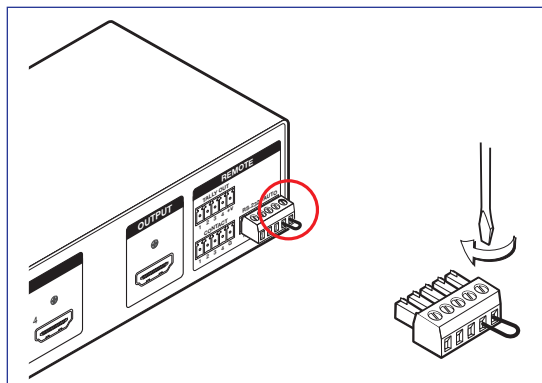


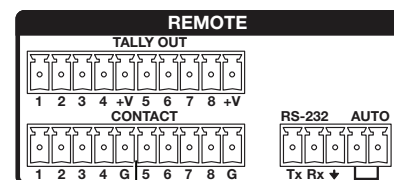
Figure 2. Enabling Auto-input Switching

7. **Connect a contact closure device** (optional). Connect a push-button contact closure device to the Contact port (④ on the **rear panel diagram** on page 1) to enable input switching via contact closure.

- a. Plug a 5-pole captive screw connector (provided) into one or both of the two connectors of the dual Contact port.
- b. Insert the signal wire of the contact closure device into the slot representing the desired input number on the SW HDMI Contact port.

Pin 1 = Input 1 contact
Pin 2 = Input 2 contact
Pin 3 = Input 3 contact
Pin 4 = Input 4 contact
Pin 5 (G) = Contact ground

Pin 6 = Input 5 contact
Pin 7 = Input 6 contact
Pin 8 = Input 7 contact (SW8 only)
Pin 9 = Input 8 contact (SW8 only)
Pin 10 (G) = Contact ground



Contact Port for Input Selection: SW6/SW8 HDMI

- c. Insert the ground wire of the contact device into the G (ground) slot of the Contact port (pin 5 or 10).

Press the button on the contact closure device to switch the connected input to the output.

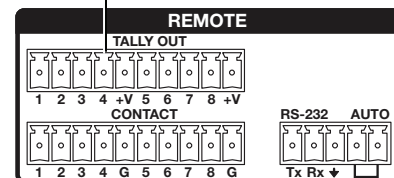
8. **Connect an indicator device to the Tally Out port** (optional). To identify the currently selected input when the front panel buttons are not visible, connect a device such as an LED to the input and +V pins of the Tally Out port (⑥ on the **rear panel diagram** on page 1). When the input you are using is selected, the corresponding tally out pin shorts to ground, which activates the connected indicator.

- a. Plug a 5-pole captive screw connector (provided) into one or both of the two Tally Out connectors of the dual Tally Out port.
- b. Insert the power wire for the contact indicator device into the +V slot of the Tally Out connector (pin 5 or 10).

Pin 1 = Input 1 tally ground
Pin 2 = Input 2 tally ground
Pin 3 = Input 3 tally ground
Pin 4 = Input 4 tally ground
Pin 5 = +5 V

Pin 6 = Input 5 tally ground
Pin 7 = Input 6 tally ground
Pin 8 = Input 7 tally ground (SW8 only)
Pin 9 = Input 8 tally ground (SW8 only)
Pin 10 = +5 V

Tally Out Port for Input Selection Indication: SW6/SW8 HDMI



- c. Insert the ground wire for the indicator into the slot on the Tally Out port that represents the input that you want to monitor (pin 1, 2, 3, 4, 6, 7, 8, or 9).

Example: One way to use this port is to connect it to a contact closure device with an LED. Connect the contact device to the Contact port as well. When you use the contact device to switch the input that you are using, the LED lights.

9. Power on the output display.
10. Connect power to the switcher.
11. Power on the source devices.

Front Panel Features

NOTE: Figure 3 shows an SW8 HDMI, which has eight input buttons, input LEDs, and HDCP LEDs. The front panel of the SW6 HDMI is identical except for the number of buttons and LEDs (six).

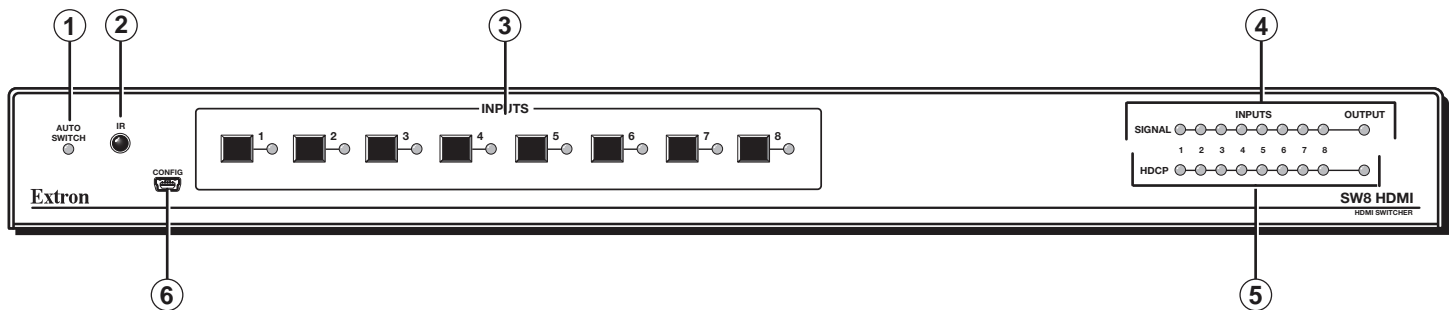


Figure 3. SW8 HDMI Front Panel

- ① Auto Switch LED
- ② IR receiver port
- ③ Input Selection buttons and LEDs
- ④ Input and Output Signal LEDs
- ⑤ HDCP Status LEDs
- ⑥ USB Config port

Application Diagram

Figure 4 shows an example of how an SW8 HDMI may be connected.

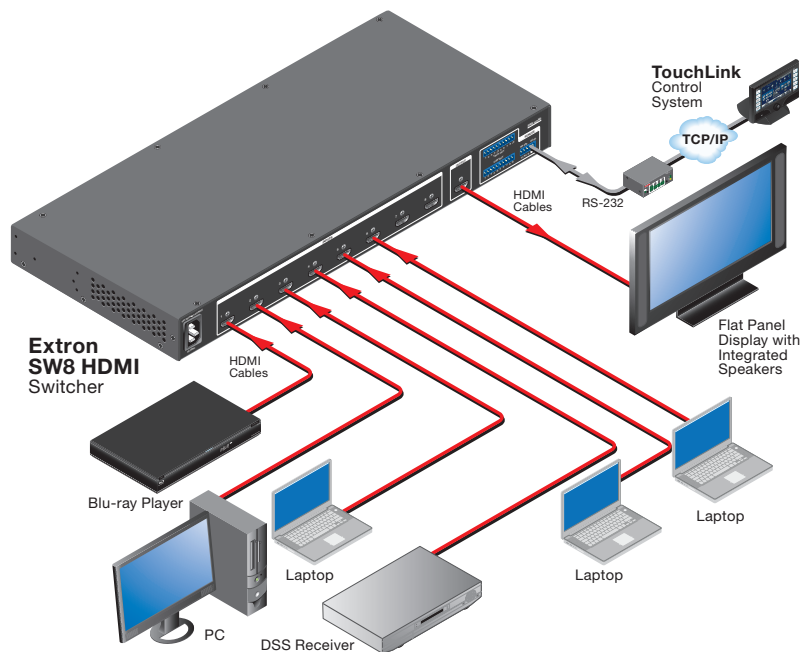


Figure 4. SW8 HDMI Connection Example

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